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Application No. 10/825,405  
Amendment dated January 21, 2009  
Reply to Office Action of October 22, 2008

Docket No.: NY-NIAD 216-US2-DIV

AMENDMENTS TO THE CLAIMS

Claims 1-12. (Cancelled)

Claim 13. (Currently amended) A method for increasing leptin levels in a human subject in need of improved immune function, skin epithelialization, hair follicle cycling, or inhibition of tumor formation, comprising administering to said subject an amount of nicotinic alkyl ester sufficient to increase leptin levels in said subject and improve immune function, improve skin epithelialization, improve hair follicle cycling, or inhibit tumor formation, wherein the alkyl chain of said nicotinic acid alkyl ester contains from 8 to 22 carbon atoms.

Claim 14. (Currently amended) The method of claim 13, wherein said human subject is in need of improved immune function.

Claim 15. (Currently amended) The method of claim 13, wherein said human subject is in need of improved skin epithelialization.

Claim 16. (Currently amended) The method of claim 13, wherein said human subject is in need of improved hair follicle cycling.

Claim 17. (Currently amended) The method of claim 13, wherein said human subject is in need of inhibition of tumor formation.

Claim 18. (Previously presented) The method of claim 13, wherein said alkyl chain contains 12 or 14 carbon atoms.

Claim 19. (Previously presented) The method of claim 13, wherein said nicotinic acid alkyl ester is administered orally.

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Claim 20. (Previously presented) The method of claim 13, wherein said nicotinic acid alkyl ester is administered topically.

Claim 21. (Previously presented) The method of claim 13, comprising administering more than one nicotinic acid alkyl ester.

Claim 22. (New) The method of claim 13, wherein said nicotinic acid alkyl ester is administered in an amount ranging from about 0.1g to about 10 g/day/70 kg of body weight.

Claim 23. (New) The method of claim 22, wherein said nicotinic acid alkyl ester is administered in an amount ranging from about 0.1 g to about 7 g/day/70 kg of body weight.

Claim 24. (New) The method of claim 22, wherein said nicotinic acid alkyl ester is administered in an amount ranging from about 0.4 g to about 5 g/day/70 kg of body weight.